10th Class 2017

Chemistry	Group-II	Paper-II
Time: 15 Minutes	(Objective Type)	Marks: 12

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

1- **The units of equilibrium constant K_c for reaction in the balance chemical equation $N_2 + 3H_2 \rightleftharpoons 2NH_3$ are:**

(a) mol dm^{-3} (b) mol^{-1} dm^{-3}
(c) mol^{-2} dm^{6} √ (d) No units

Reactions which have comparable amounts of reactants and products at equilibrium state have:

(a) Very small K_c value
(b) Very large K_c value
(c) Moderate K_c value √
(d) None of these

Potassium ferrocyanide $K_4[Fe(CN)_6]$ is:

(a) Acidic salt (b) Basic salt
(c) Double salt (d) Complex salt √

The conjugate acid of HPO_4^{2-} is:

(a) PO_4^{3-} (b) $H_2PO_4^{2-}$
(c) $H_2PO_4^{-}$ √ (d) H_3PO_4

The molecular formula of Decane is:

(a) $C_{10}H_{22}$ √ (b) $C_{10}H_{20}$
(c) $C_{10}H_{18}$ (d) $C_{10}H_{21}$

6- **The oxidation of alkenes produce:**

(a) Glyoxal (b) Glycol √

(c) Oxalic acid (d) Formic acid

7- **The formula of stearic acid is:**

(a) $C_{14}H_{31}COOH$ (b) $C_{15}H_{31}COOH$

(c) $C_{16}H_{31}COOH$ (d) $C_{17}H_{35}COOH$ √

8- **Night-blindness is because of deficiency of:**

(a) Vitamin A √ (b) Vitamin E

(c) Vitamin C (d) Vitamin D

9- **Normally rainwater is weakly acidic because of:**

(a) SO_3 gas (b) CO_2 gas √

(c) SO_2 gas (d) NO_2 gas

10- **Specific heat capacity of water is:**

(a) $4.2\ KJg^{-1}\ K^{-1}$ (b) $4.2\ Jg^{-1}\ K^{-1}$ √

(c) $2.4\ Jg^{-1}\ K^{-1}$ (d) $2.4\ KJg^{-1}\ K^{-1}$

11- **Temporary hardness of water is due to:**

(a) $Ca(HCO_3)_2$ √ (b) $CaCO_3$

(c) $MgCO_3$ (d) $MgSO_4$

12- **The composition of carbon in fuel oil is:**

(a) C_7 to C_{10} (b) C_{10} to C_{12}

(c) C_{13} to C_{15} (d) C_{15} to C_{18} √